

5

CLAIMS

We claim:

- 10 1. A skin care or cleansing composition, comprising:
 - a. a dispersed phase including a first component, the first component being capable of chemically reacting with a second component that is different from the first;
 - b. a continuous phase present in the composition composed of a substantially anhydrous carrier;
 - 15 c. at least one stabilizer contained in the dispersed phase wherein the stabilizer is selected from an organophilic particle, an amphipathic compound or polymer, or a crystalline hydroxyl containing stabilizer;
 - d. wherein the first component is substantially unsolvated in the carrier; and
 - e. an anionic surfactant in a concentration of at least 2% by wt. when the at least one
20 stabilizer consists solely of waxy particles, amphipathic compounds or polymers, or a combination thereof.
- 25 2. The composition of claim 1 wherein the dispersed phase comprises the first and the second components and wherein the second component is substantially unsolvated in the carrier.
3. The composition of claim 1 wherein the reaction of the first component with water or the first component and the second component is not polymerization.
- 30 4. The composition of claim 1 wherein the at least one reactive component has a particle size range of about 0.5 to 5000 μ .
5. The composition of claim 1 wherein the stabilizer is an organophilic particle in the particle size range of about 0.02 to 250 μ .
- 35 6. The composition of claim 1 wherein the stabilizer is selected from a waxy particle, organophilic silica, organophilic clay, or blends thereof.

J6839(c) Spadini et al.

- 5 7. The composition of claim 1 wherein the stabilizer is an amphipathic compound or polymer with some oil soluble groups substantially solvated by the carrier and some polar groups substantially unsolvated by the carrier.
- 10 8. The composition of claim 1 where the stabilizer is an amphipathic polymer selected from polysiloxanes, polyalkylene ethers, polysaccharides, polyacrylates, or polystyrene each substituted with at least one linear or branched C8 to C24 alkyl or alkenyl chain.
- 15 9. The composition of claim 1 wherein the carrier may contain components that are polar, nonpolar or a blend thereof.
- 20 10. The composition of claim 1 wherein the first and second components do not substantially react with each other until dispersed or dissolved in water.
- 25 11. The composition of claim 1 further comprising dispersed surfactants that are substantially unsolvated by the carrier.
- 30 12. The composition of claim 1 further comprising structuring agents that form lamellar, hexagonal, or cubic surfactant phases upon contact with water at 25 C.
- 35 13. The composition of claim 1 wherein the first component is capable of producing a gas in aqueous solution when reacted with an acid and the second component is an acid or forms an acid in the presence of water.
14. The composition of claim 1 wherein the first component is capable of generating a peroxide compound when dissolved in water.
15. The composition of claim 1 wherein the first component is capable of generating sulfide ions when reacted with an alkaline material and water.
16. The composition of claim 1 wherein the carrier contains an oil, an emulsifier and wherein the stabilizer is an organophilic clay; and the composition contains a total of at least about 10% of reactive dispersed solids by wt.

J6839(c) Spadini et al.

- 5 17. The composition of claim 1 where the first component is a solid or semisolid containing dissolved carbon dioxide.
18. A solidifiable skin care or cleansing composition, comprising:
- 10 a. a first component dispersed in a matrix capable of solidification at 25 °C, the component being capable of chemically reacting with a second component that is different from the first component and which is optionally present in the matrix;
- b. wherein the first component, the second component or both components are substantially unsolvated in said matrix; and
- 15 c. wherein said matrix is water soluble or dispersible and contains at least one stabilizer selected from an organophilic particle, an amphipathic compound or polymer, or a crystalline hydroxyl containing stabilizer; and
- d. an anionic surfactant in a concentration of at least 2% by wt. when the at least one stabilizer consists solely of waxy particles, amphipathic compounds or polymers, or a
- 20 combination thereof.
19. The composition of claim 18 where the composition is a solid at 25 C.
20. The composition of claim 18 wherein the second component is substantially unsolvated in the
- 25 matrix.
21. The composition of claim 18 wherein the reaction of the first component with water or the first component and the second component is not polymerization.
- 30 22. The composition of claim 18 wherein the matrix may contain components that are polar, nonpolar or a blend thereof.
23. The composition of claim 18 wherein the first and second components do not substantially react with each other until dispersed or dissolved in water.
- 35 24. The composition of claim 18 further comprising at least one surfactant that is substantially unsolvated by the matrix.

J6839(c) Spadini et al.

- 5 25. The composition of claim 18 further comprising structuring agents that form lamellar, hexagonal, or cubic surfactant phases upon contact with water at 25 C.
- 10 26. The composition of claim 18 wherein the first component is capable of producing a gas in aqueous solution when reacted with an acid and the second component forms an acid in the presence of water.
27. The composition of claim 18 wherein the first component is capable of generating sulfide ions when reacted with an alkaline material and water.
- 15 28. The composition of claim 18 wherein the composition contains a solidified oil or wax, and an emulsifier.
- 20 29. The composition of claim 18 wherein the composition contains a total of at least about 10% of one or more substantially anhydrous reactive materials selected from ammonium, amine, alkali and alkaline metal salts of carbonates, bicarbonates, organic acids, organic anhydrides, inorganic or organometallic acids, acid precursors and blends thereof.
- 25 30. The composition of claim 18 where the first component is a solid or semisolid containing dissolved carbon dioxide.
31. A toilet bar, comprising:
- a. a solid base containing a soap, a non-soap anionic surfactant, or a combination thereof in a total concentration greater than about 10 % by wt.;
 - 30 b. a dispersed phase composed of a first component, the first component being capable of chemically reacting with a second component that is different from the first;
 - c. a continuous phase present in the composition composed of a substantially anhydrous carrier;
 - d. a stabilizer contained in the dispersed phase; wherein the first component is substantially unsolvated in the carrier;
 - 35 e. wherein the dispersed and continuous phase separately form one or more domains of at least 1 mm average length along its major axis in the solid base; and
 - f. wherein the second component is contained in the solid base.

J6839(c) Spadini et al.

5

32. A toilet bar, comprising:

- a. a solid base containing a soap, a non-soap anionic surfactant, or a combination thereof in a total concentration greater than about 10 % by wt.;
- 10 b. a first dispersed phase composed of a first component, the first component being capable of chemically reacting with a second component that is different from the first;
- c. a second dispersed phase containing the second component;
- d. a first continuous phase present in the composition composed of a first substantially anhydrous carrier;
- 15 e. a second continuous phase present in the composition composed of a second substantially anhydrous carrier;
- f. a stabilizer contained in each of the first and second dispersed phases; wherein the first component is substantially unsolvated in the first carrier and the second component is substantially unsolvated in the second carrier; and
- 20 g. wherein each of the first and second carriers form one or more separate domains of at least 1 mm average length along their major axis.

33. A method of treating the skin or hair, comprising the steps of:

- 25 a. contacting the skin or hair with a composition containing
 - 1. a dispersed phase composed of a first component capable of chemically reacting with a second component that is different from the first and which is optionally present in the dispersed phase;
 - 2. a continuous phase composed of a substantially anhydrous carrier;
 - 30 3. at least one stabilizer selected from an organophilic particle, an amphipathic compound or polymer, or a crystalline hydroxyl containing stabilizer;
 - 4. wherein the first component, the second component or both components are substantially unsolvated in the carrier;
 - 5. an anionic surfactant in a concentration of at least 2% by wt. when the at least one
 - 35 stabilizer consists solely of waxy particles, amphipathic compounds or polymers, or a combination thereof; and
- b. adding water to the composition on the skin or hair.

J6839(c) Spadini et al.

- 5 34. The method of claim 33 where the second component is the same as or is different from water.
35. The method of claim 33 where the second component contains less than about 50% by wt. of water and where the second component is added to the first component before or after
- 10 contacting the skin or hair with the first component.
36. A method of treating the skin or hair, comprising the steps of:
- a. contacting the skin or hair with a solidifiable composition containing
- 15 1. a first component dispersed in a matrix capable of solidification at 25 °C, said component being capable of chemically reacting with a second component that is different from said first component and which is optionally present in the matrix;
2. wherein the first component, the second component or both components are substantially unsolvated in said matrix;
- 20 3. wherein said matrix is water soluble or dispersible and contains at least one stabilizer selected from an organophilic particle, an amphipathic compound or polymer, or a crystalline hydroxyl containing stabilizer ;
4. an anionic surfactant in a concentration of at least 2% by wt. when the at least one stabilizer consists solely of waxy particles, amphipathic compounds or polymers, or a
- 25 combination thereof.and
- b. adding water to the solidified composition on the skin or hair.
37. The method of claim 35 wherein the composition is a solid at 25 C.
- 30 38. The method of claim 35 where the second component is the same as or is different from water.
39. The method of claim 35 where the second component contains less than about 50 % by wt. of water and where the second component is added to the first component before or after
- 35 contacting the skin or hair with the first component.